Claims

1. Method of producing a cationic liposomal preparation comprising a camptothecin drug in its carboxylate form, comprising the steps of
   (a) providing cationic liposomes in an aqueous medium comprising the components
      (i) at least one cationic lipid and optionally at least one amphiphile,
      (ii) a camptothecin drug in its carboxylate form and
      (iii) a cryoprotectant,
   (b) optionally homogenizing the liposomes of step a) at least once,
   (c) optionally sterile filtrating the liposomes of step a) or b),
   (d) dehydrating the liposomes of step a) b) or c) and
   (e) reconstituting the dehydrated liposomes of step d) in an aqueous medium,

   wherein said aqueous medium of step a) and/or of step e) comprises a pH active agent in a concentration of about 0 mM to about 10 mM and has a pH between about 5 and about 9, preferably between about 6 and about 8.

2. The method of claim 1, wherein said cationic lipid is present in an amount of at least about 30 mol% based on the amount of total lipids of the cationic liposomes.

3. The method of claim 1 or 2, wherein said cationic lipid comprises a positively charged group which is a tertiary amino or quaternary ammonium group such as N-[1-(2,3-diacyloxy)propyl]-N,N-dimethylamine or N-[1-(2,3-diacyloxy)propyl]-N,N,N-trimethyl ammonium, preferably 1,2-dioleyl-3-trimethylammoniumpropane (DOTAP) or 1,2-dioleyl-3-dimethylammoniumpropane (DODAP).

4. The method of any one of the claims 1 to 3, wherein said amphiphile is present in an amount of up to about 70 mol% based on the amount of total lipids of the cationic liposomes.

5. The method of any one of the claims 1 to 4, wherein said amphiphile is non-cationic and preferably selected from sterols such as cholesterol, from phospholipids, lysolipids, lysophospholipids, sphingolipids or pegylated lipids and combinations thereof, preferably diacylphosphatidylcholine.

6. The method of any one of the claims 1 to 5, wherein said camptothecin carboxylate drug is present in an amount of at least about 0.1 mol% to up to about 100 mol%, preferably less than about 50 mol% with respect to the amount of total lipids.

7. The method of any one of the claims 1 to 6, wherein said pH active agent is selected from Tris, Hepes, Bis, phosphate, carbonate or amino acids, optionally together with a base or an acid such as NaOH or HCl.

8. The method of any one of the claims 1 to 7, wherein said stabilizing agent is present during at least one of the steps a) to e), and which is preferably an antioxidant and more preferably selected from alpha-tocopherol or vitamin C.

9. The method of any one of the claims 1 to 8, wherein at least one of the steps, preferably all of the steps a) to e) are performed under protection from light.

10. A cationic liposomal preparation comprising a camptothecin drug in its carboxylate form and a pH active agent of up to about 10 mM in an aqueous medium, wherein said medium has a pH between about 5 and about 9, preferably between about 6 and about 8.

11. A cationic liposomal preparation obtainable by a process of any one of the claims 1 to 9.

12. A pharmaceutical composition comprising a liposomal preparation of claims 10 or 11, optionally together with a pharmaceutically acceptable carrier, diluent and/or adjuvant.

13. Use of the liposomal preparation of claims 10 or 11 or a pharmaceutical composition of claim 12 for the manufacture of a medicament for an angiogenesis-associated disease.